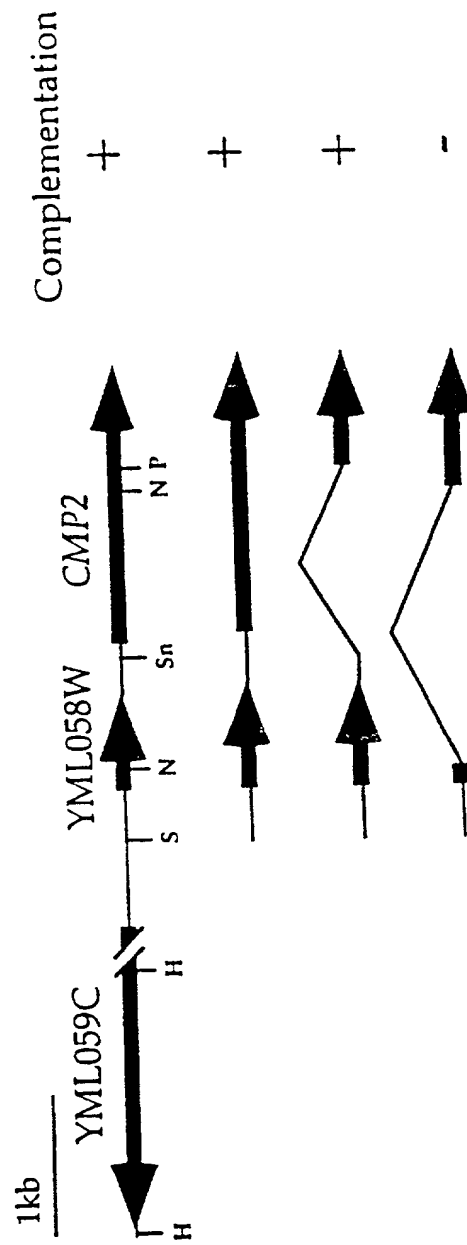




FIG. 1B



AATGAGCAACCGTGTCACAAGAGTGTCAGACCGGCTACTTATTCCCCAAGGATCACGTTCTCTCTGCCAACATCATTTG  
CCGTCGAACGTCGGCGGCTCTTCTGACATTGGTAAGAATACTTCCAACCTAAGAGCATGCTTCTCTTTTTTTTTT  
GTAGGCCAATGATAGGAAGAACAAATAGATTATAAATACGTCAGAAATATAGTAGATATGTTTTTATGTTTAGACCTCGTA  
CATAGGAATAATTGACGTTTTTTTTTGGCCAAACATTTGAAATTTTTTTTACCTCGCGCTGAGCCCCAAACGGGCTCC  
ACTACCCGCGGTCGCCATTTTGGGAAGTCATCCGTCCTCCAAAAGGAAATAGCCATAACATATCGTTACTGTTTTTGGGA  
ACATCGCCCGTTTCGCCCGATTCCGCCCTCAGCGGGTATAAAAAGAGATCTTTTTTTTCTGGCTGTCCCTTC  
CATTTTTAAATGCTTTATCTGCTCCTTTGTGATCTTACGGTCTCACTAACCTCTCTTCAACTGCTCAATAAATTTCCCGCT

[illegible]

FIG. 2A

*mec1Δ/+ smt1Δ/+*

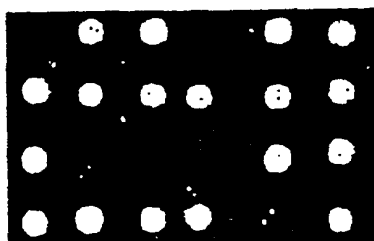


FIG. 2B

*mec1Δ/+ smt1Δ/+ dun1Δ/+*

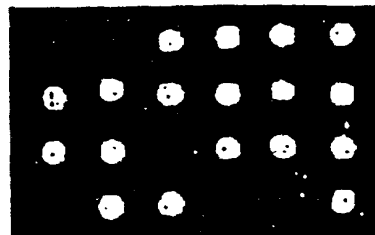


FIG. 2C

*mec1Δ/+ smt1Δ/+ tel1Δ/+*

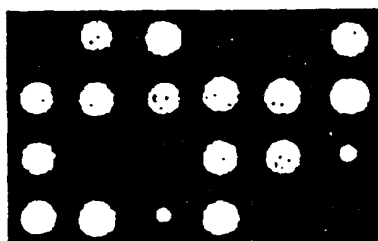


FIG. 2D

*rad53Δ/+ smt1Δ/+*

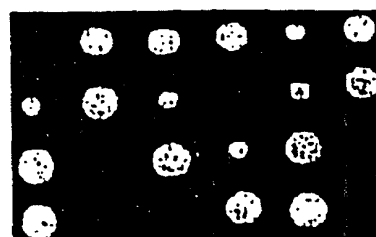


FIG. 3A

*sml1* $\Delta$

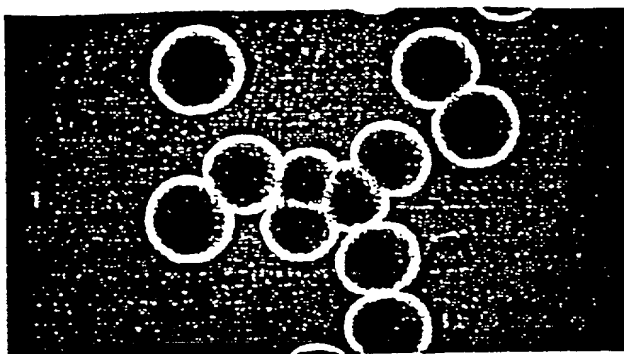


FIG. 3B

*SML1*

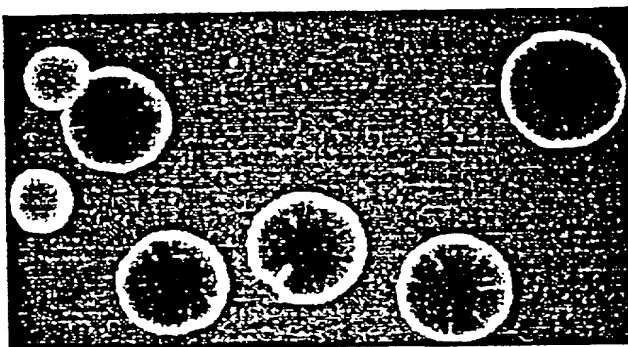


FIG. 3C

*2XSML1*

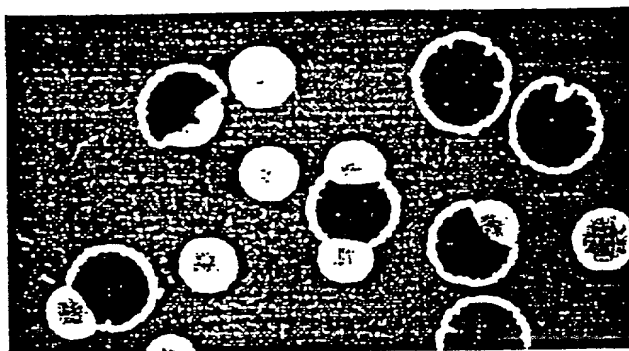
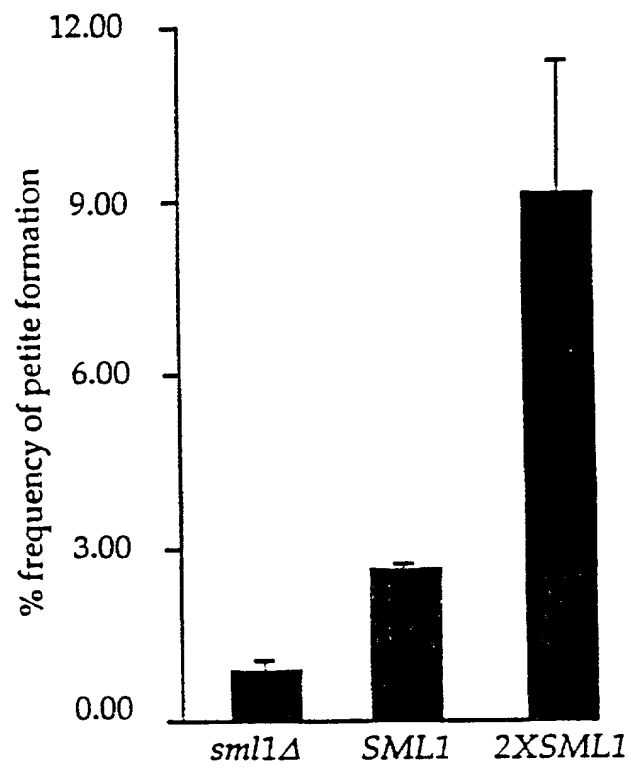
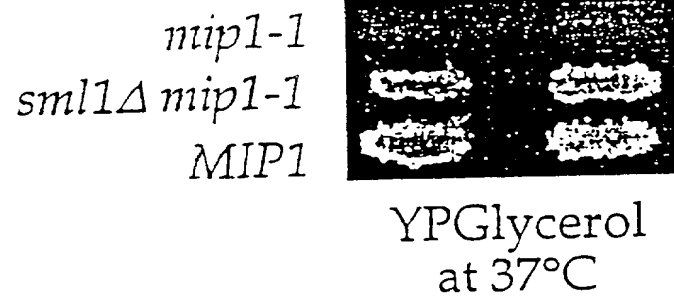


FIG. 3D



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FIG. 3E



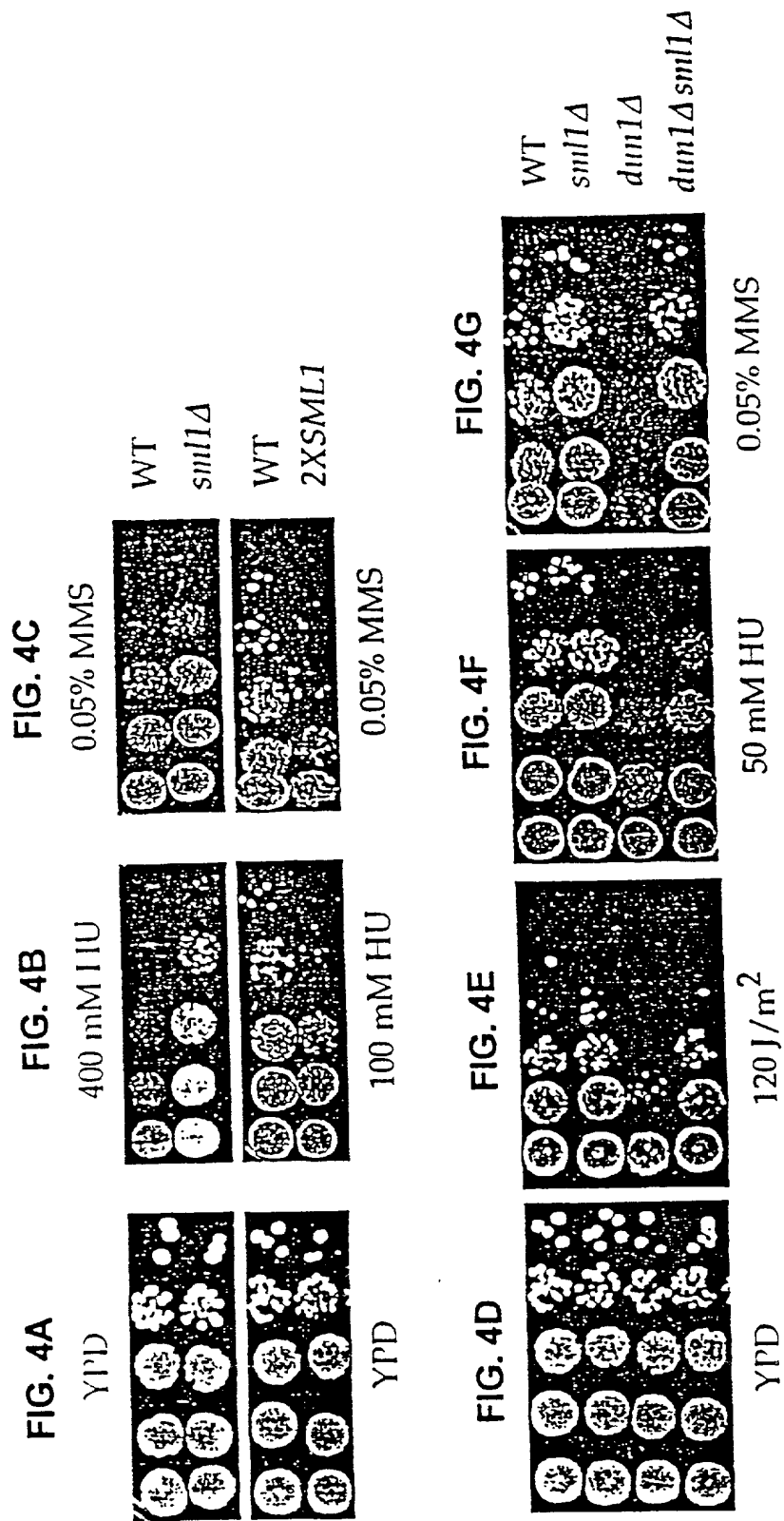






FIG. 5H

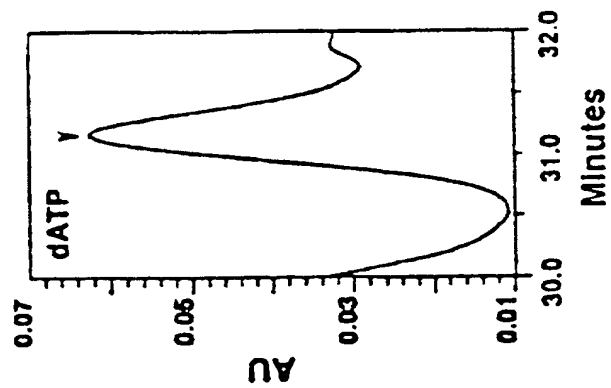


FIG. 5G

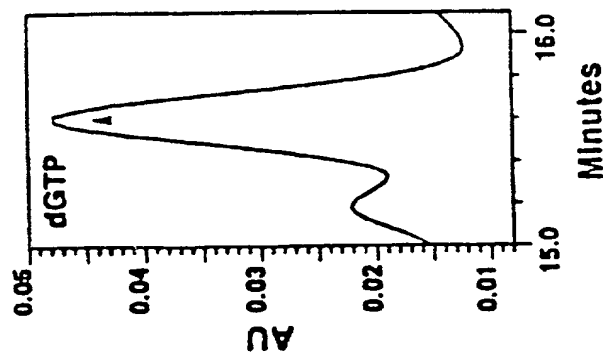


FIG. 5F

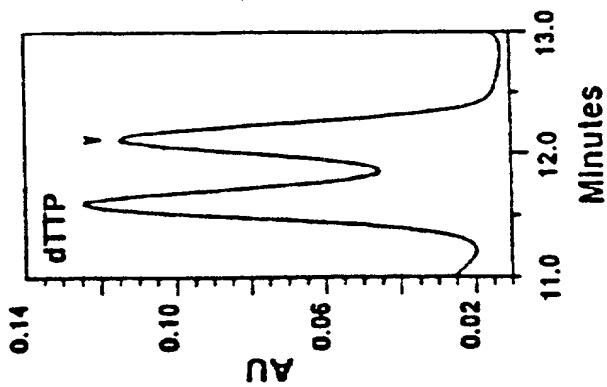


FIG. 5E

*sml1Δ*

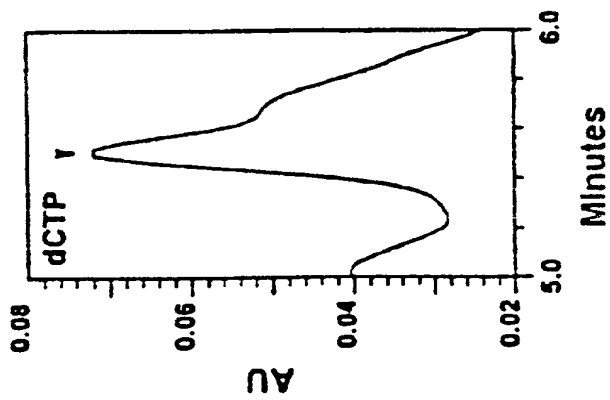


FIG. 5I

	dCTP	dTTP	dGTP	dATP
wild-type	386	869	171	327
<i>smi1Δ</i>	1071	2118	414	855
fold increase	2.6	2.4	2.4	2.6

Deoxyribonucleotide levels are shown as pmol/10<sup>9</sup> cells

Western blot analysis showing protein levels of RNR1, RNR2, RNR4, and ACTIN in WT, *mec1Δ*, and *smt1Δ* strains. The blots show that RNR1, RNR2, and RNR4 levels are significantly reduced in the *mec1Δ* and *smt1Δ* strains compared to WT. ACTIN levels are consistent across all strains, serving as a loading control.

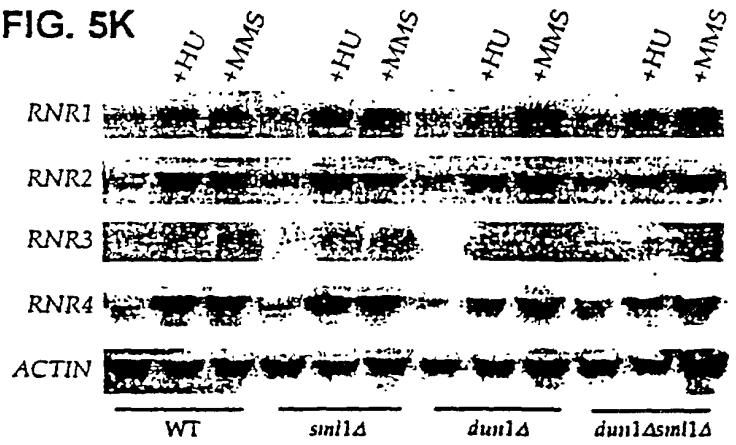


FIG. 6

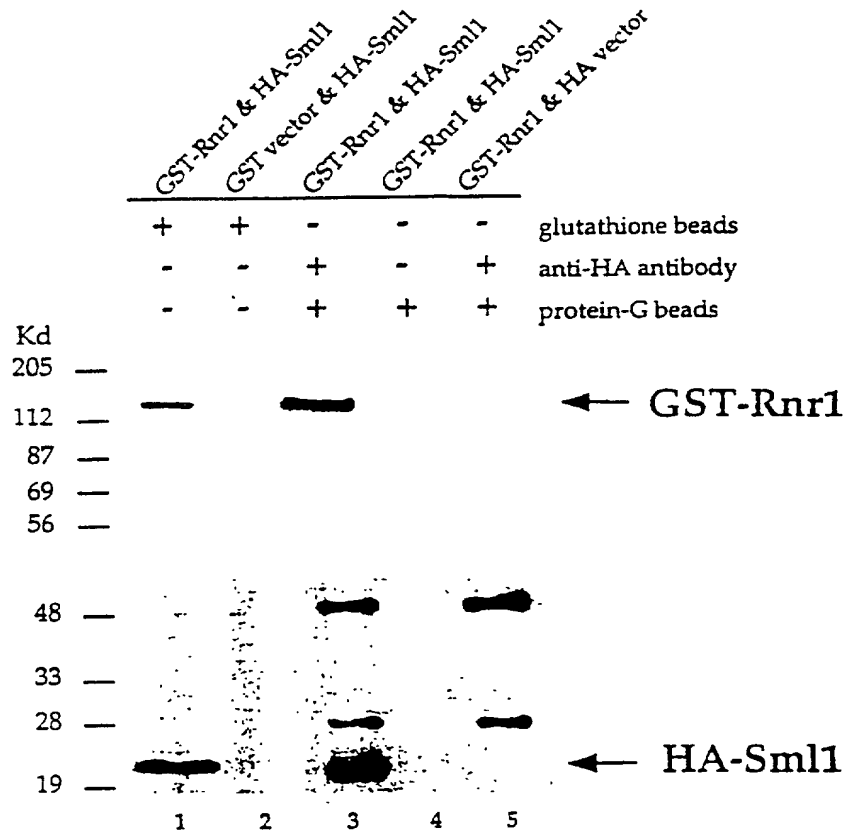
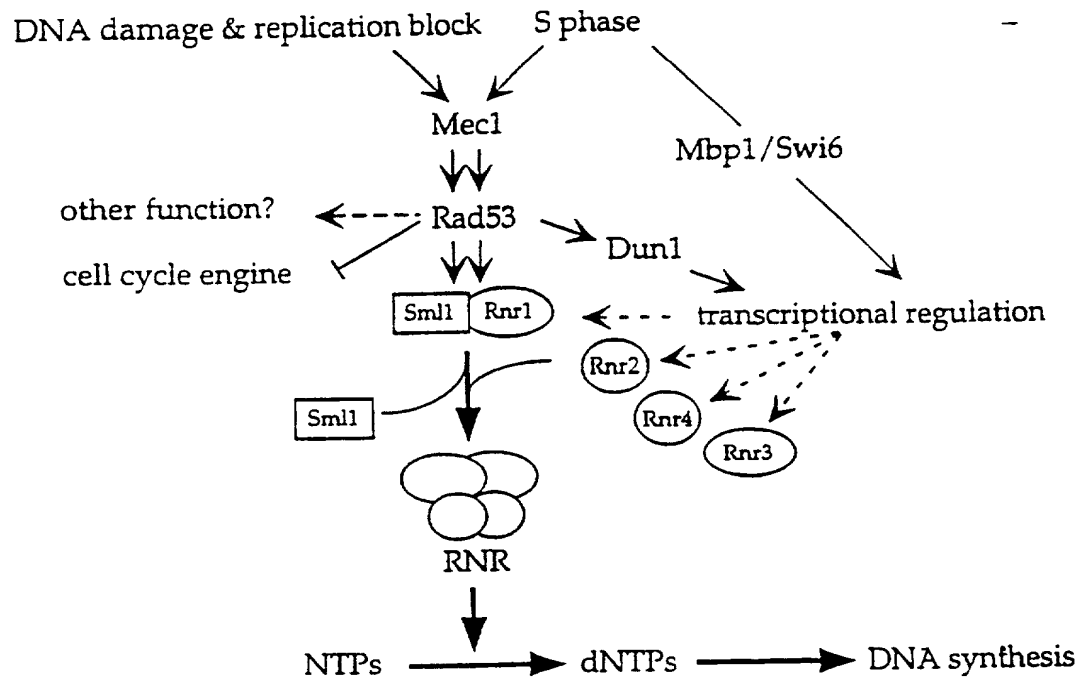


FIG. 7



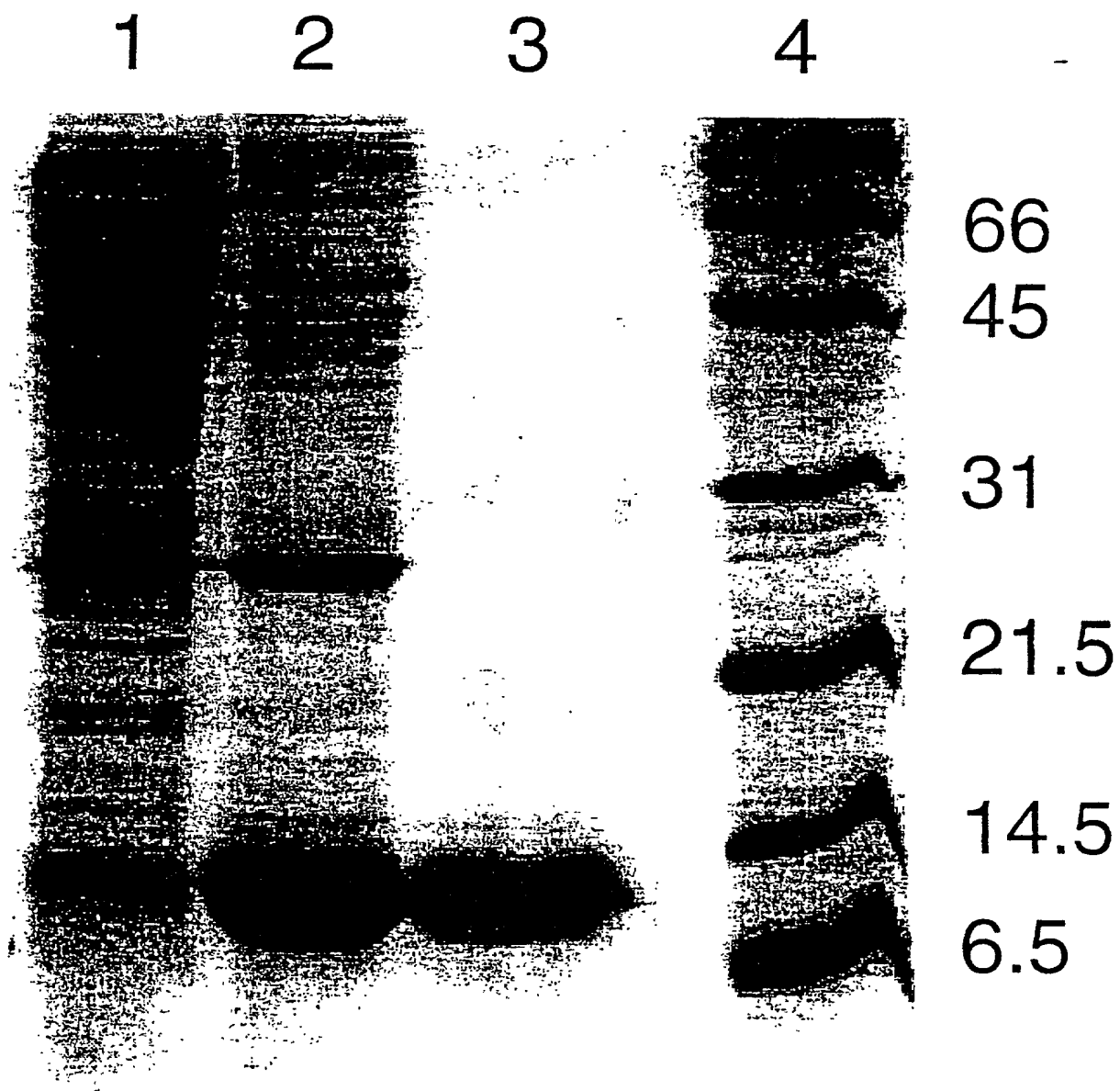


FIGURE 8

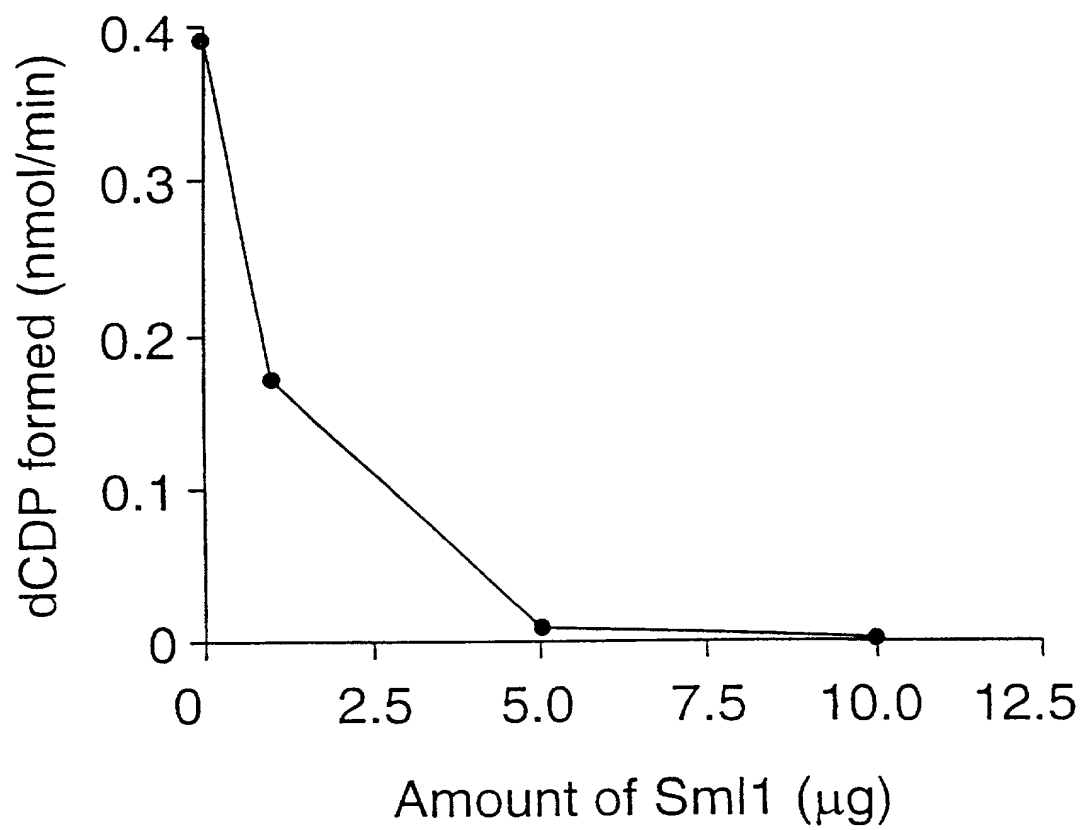


FIGURE 9



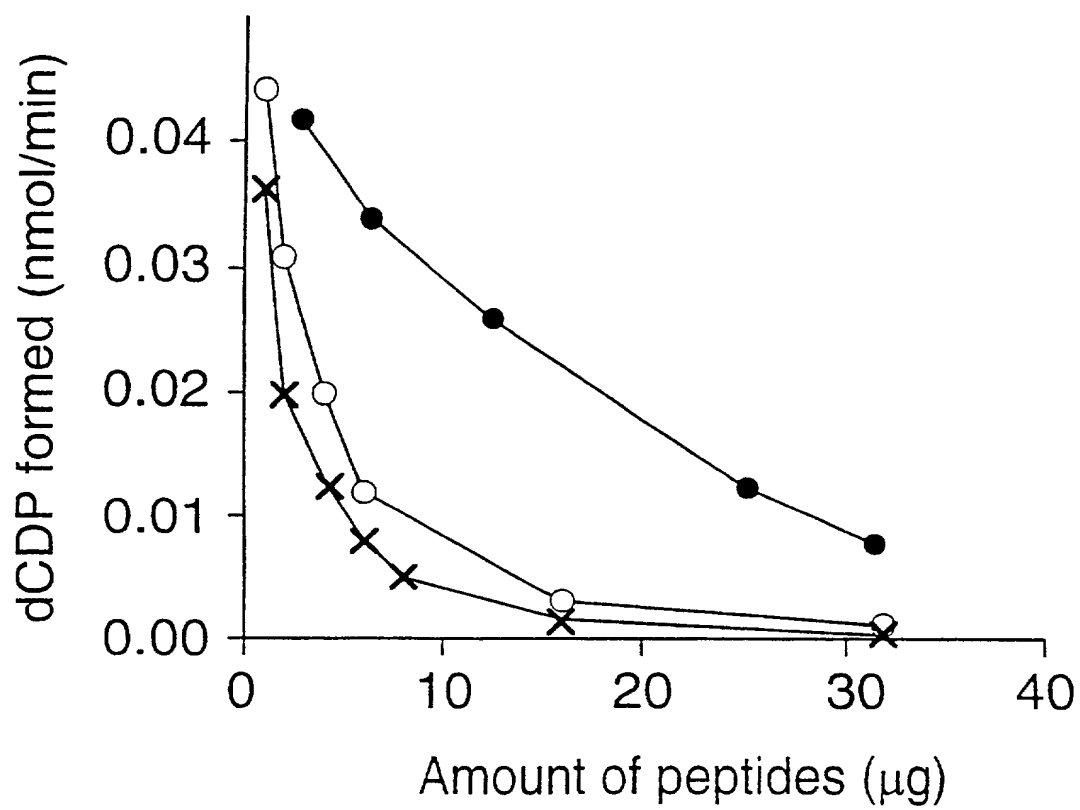


FIGURE 10

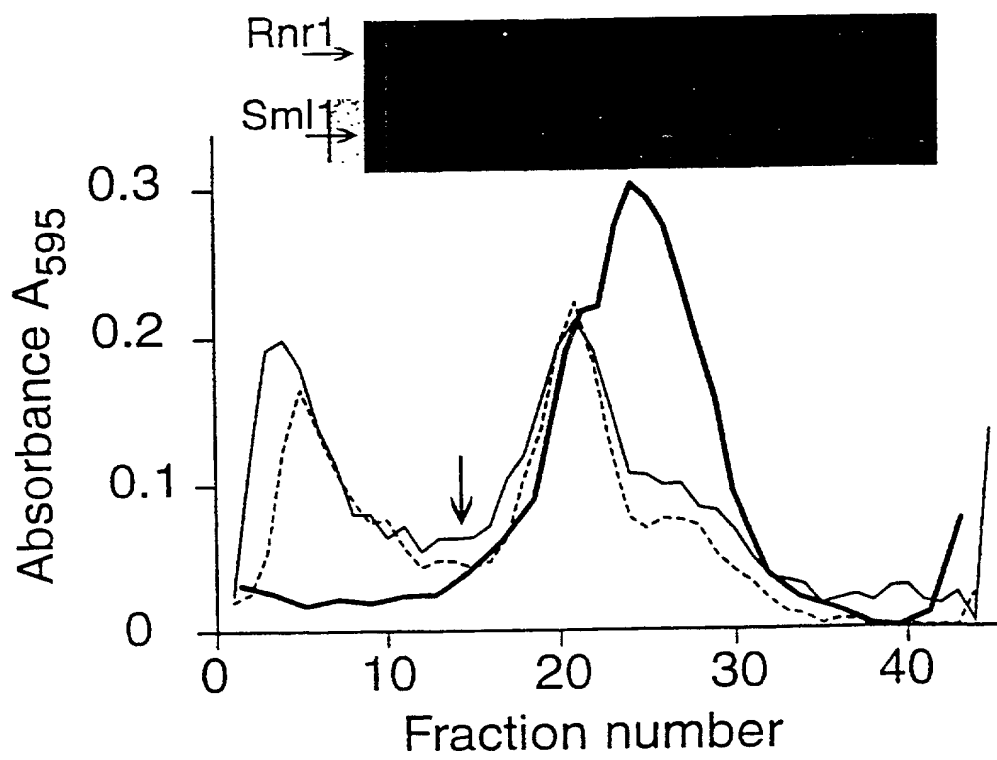
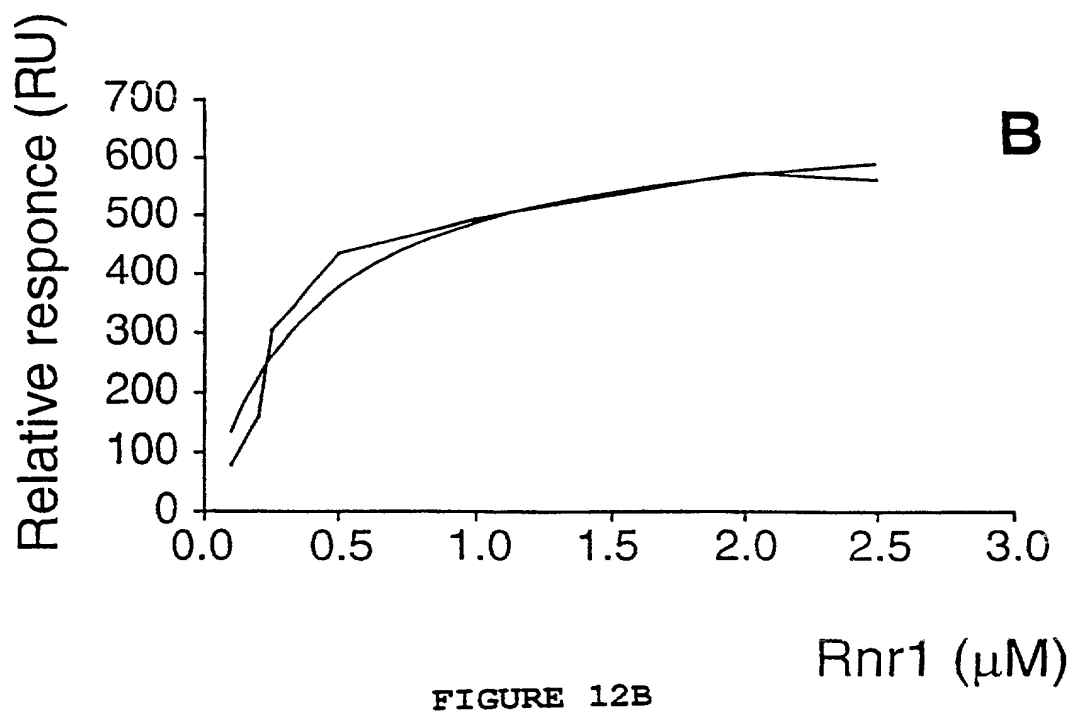
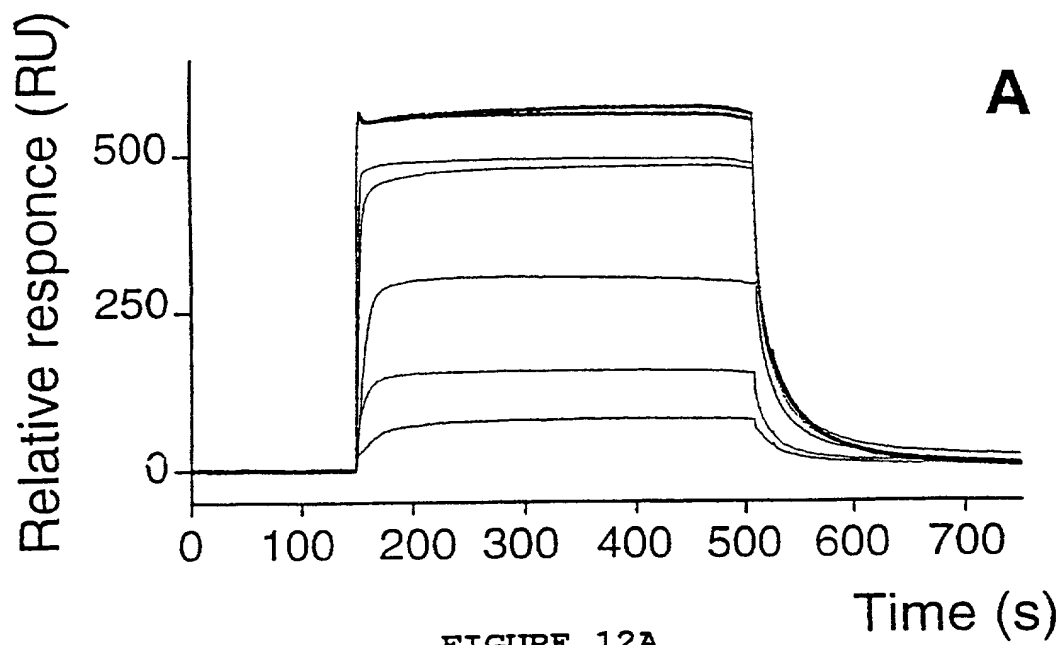


FIGURE 11



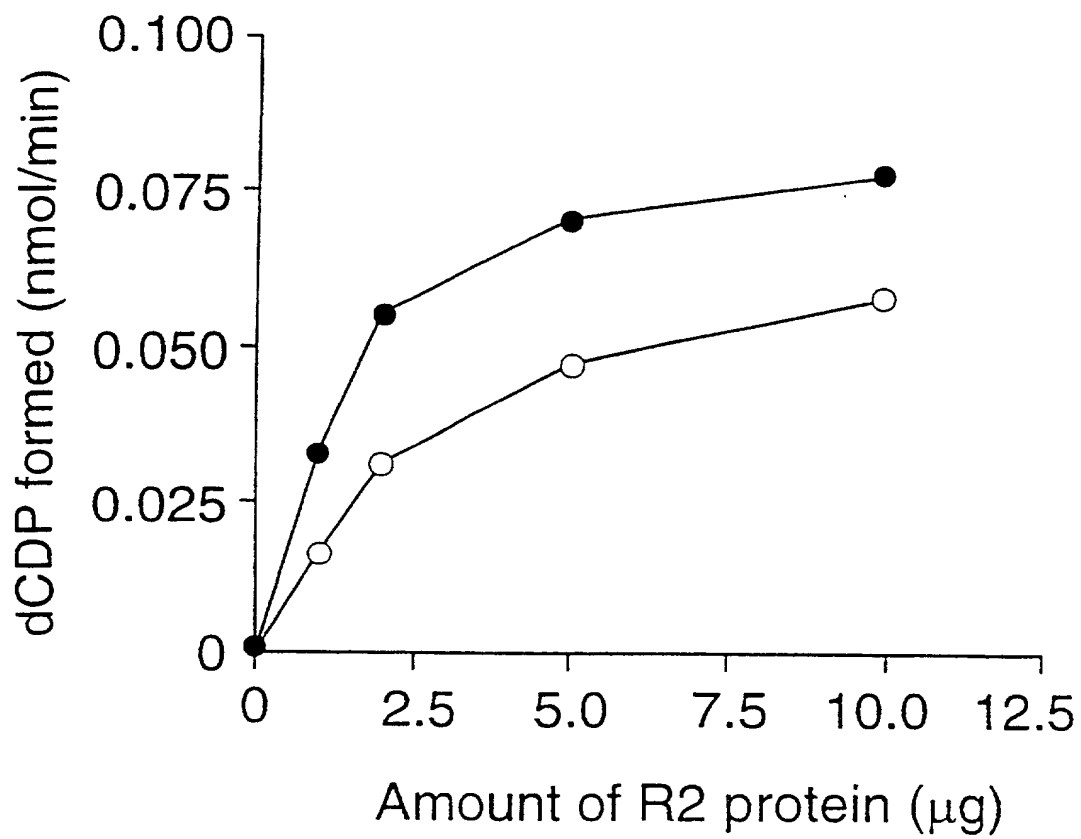


FIGURE 13

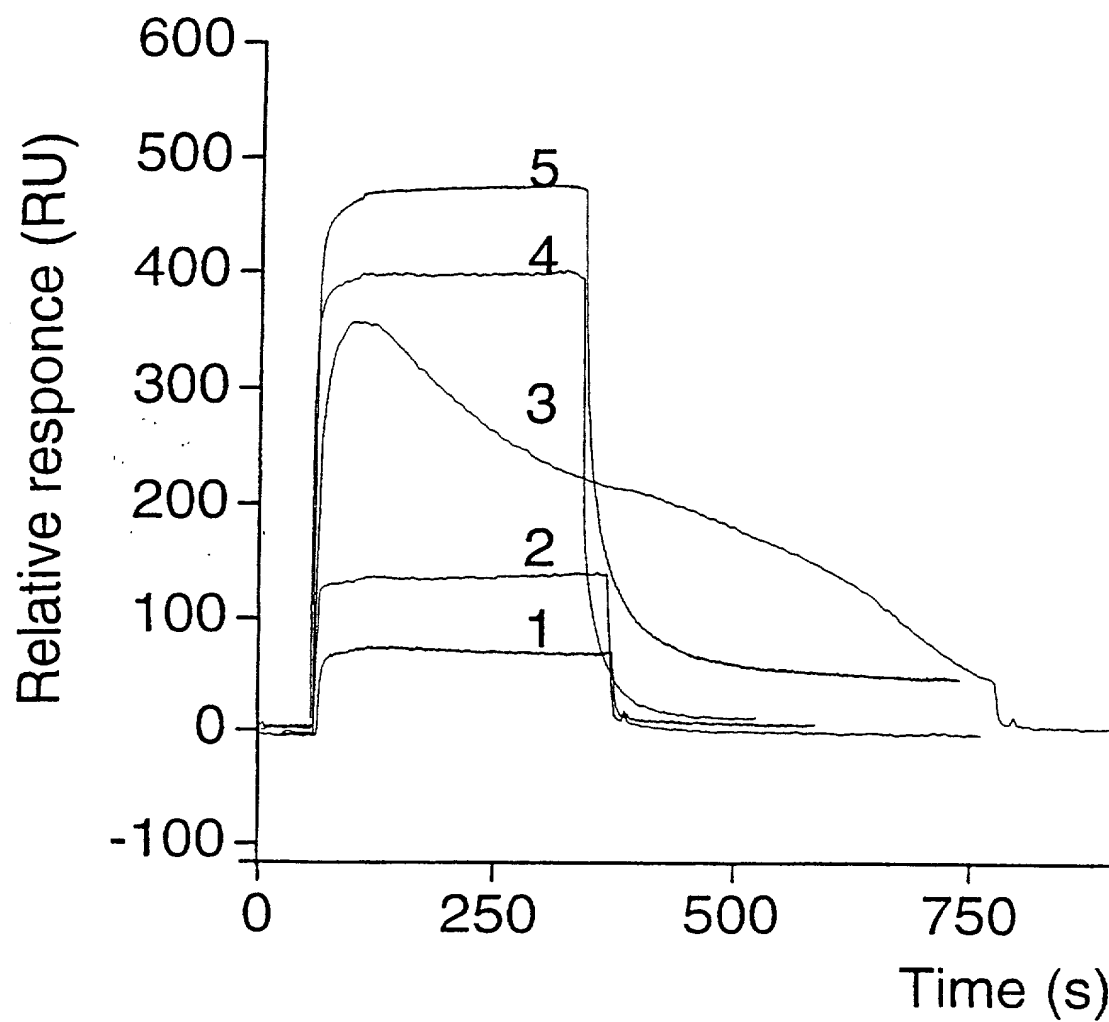


FIGURE 14